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Development and industrial application of high liquid yield delayed coking technology

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Delayed coking process is one of the efficient methods to convert heavy oil to lights. Generally vacuum residue is fed into the delayed coking unit as feed stock, in which it is cracked to reject carbon to produce rich gas, gasoline, diesel, and gas oil. Coke is produced as by product. There is no limitation on feed stock property for delayed coking process.

As the crude oil resource is becoming heavy and poor in the world, the volume of heavy oil for refinery is becoming large. Therefore, delayed coking process for heavy oil is especially concerned. PetroChina Petrochemical Research Institute has finished research work on high liquid yield delayed coking technology for poor heavy oil, and the process is used in industrial units. The results from industrial units show that the liquid yield is increased by 1-3%wt, and the coke yield is decreased by more than 1.0%wt.

Biography

Zhang Dongming, is a Principal Engineer at Petrochemical Research Institute (PRI), PetroChina, Beijing, China. He is engaged in R&D of heavy oil processing. He has issued 6 national patents. He has published 6 articles in international Journals.